

Title (en)
ELECTROLYTE SOLUTION AND BATTERY

Title (de)
ELEKTROLYTLÖSUNG UND BATTERIE

Title (fr)
SOLUTION ÉLECTROLYTIQUE ET BATTERIE

Publication
EP 3514879 B1 20201216 (EN)

Application
EP 17913433 A 20170718

Priority
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Abstract (en)
[origin: EP3514879A1] The present disclosure relates to the field of energy storage materials, and particularly, to an electrolyte and a battery using the electrolyte. The electrolyte contains an additive selected from a group consisting of multi-cyano six-membered N-heterocyclic compounds represented by Formula 1-1, Formula 1-2 and Formula 1-3, and combinations thereof. The addition of the multi-cyano six-membered N-heterocyclic compound as an additive in the electrolyte of the present disclosure can effectively passivate surface activity of the positive electrode material and inhibit oxidation of the electrolyte. The battery using the electrolyte according the present disclosure has good cycle performance at high temperature and high voltage and good storage performance, while gas production of the battery is reduced.

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US11316195B2; EP3514882A4

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